John has discovered various rocks. Each rock is composed of various elements, and each element is represented by a lowercase latin letter from 'a' to 'z'. An element can be present multiple times in a rock. An element is called a 'gem-element' if it occurs at least once in each of the rocks.

Given the list of rocks with their compositions, display the number of gem-elements that exist in those rocks.

**Input Format**   
The first line consists of **N**, the number of rocks.   
Each of the next **N** lines contain rocks' composition. Each composition consists of lowercase letters of English alphabet.

**Output Format**   
Print the number of gem-elements that are common in these rocks.

**Constraints**   
1 ≤ N ≤ 100   
Each composition consists of only small latin letters ('a'-'z').   
1 ≤ Length of each composition ≤ 100

**Sample Input**

3

abcdde

baccd

eeabg

**Sample Output**

2

**Explanation**   
Only "a", "b" are the two kind of gem-elements, since these are the only characters that occur in each of the rocks' composition.